

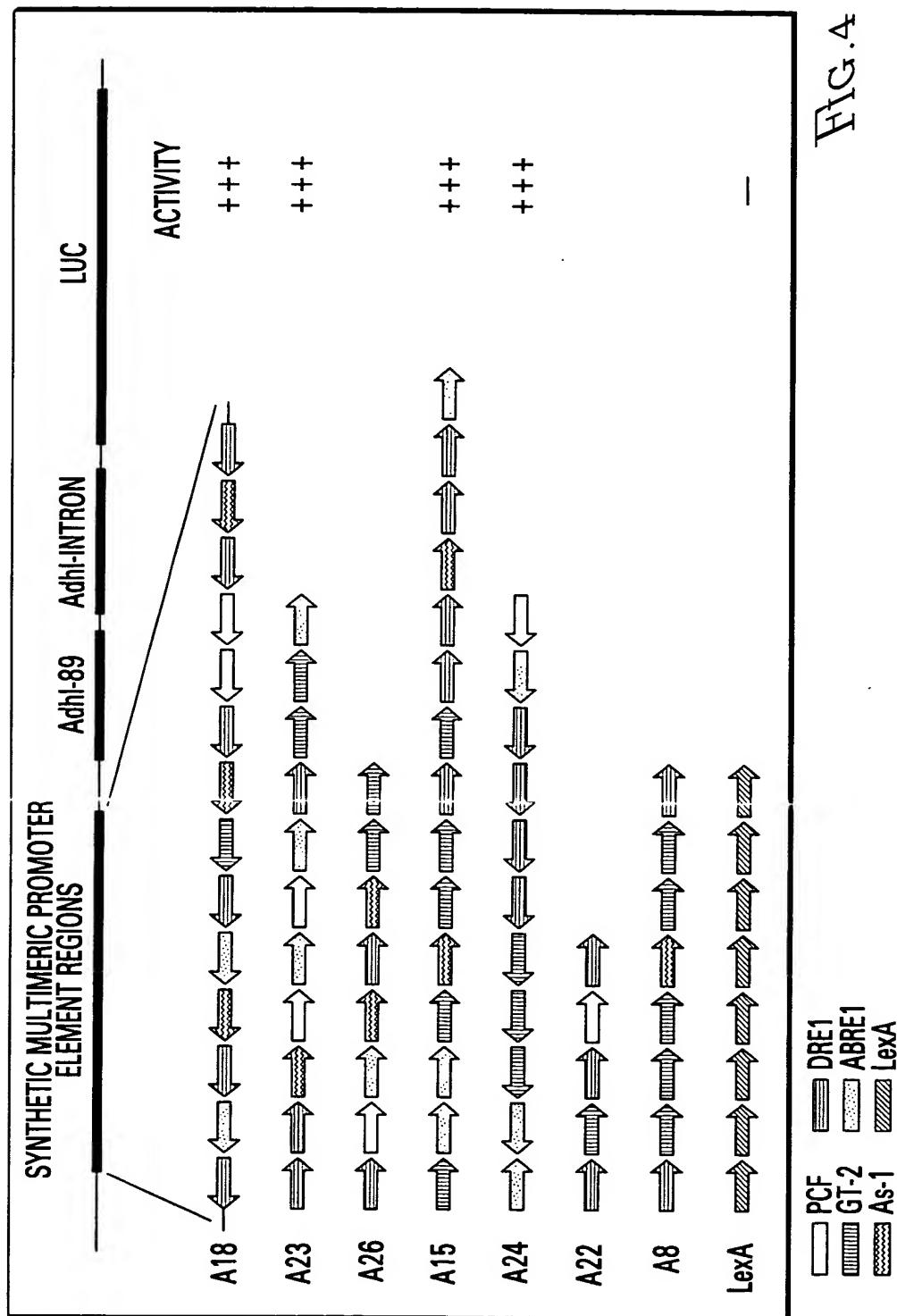
SEQ ID No.	Source Organism	Element Name	Sequence
1	wheat	Em1a	TGCCGGACACGTGGCGCGA
2*	maize	ABRE1	TTCGAGAAGAACCGAGACGTGGCGGGC
3	maize	ABRE A	GCGCTCGGCCACGTGGCATGCCGCC
4	maize	Prolamin P-box	GGTTGTACATGTGTAAAGGTGAAG
5	maize	Z2 and Z3 box	GATCATGCATGTCAATTCCACGTAGATAA
6	CaMV	35S AS-2	GTGGATTGATGTGATATCTC
7*	CaMV	35S AS-1 (As-1)	TCCACTGACGTAAGGGATGACGCACAAAT
8	<i>Agrobacterium T-DNA</i>	OCS ele	TGACGTAAGCGCTTACGTCA
9	tobacco	GCC-box	GAACATGGCGGCTTTATCTCAC
10	soybean	GH3 D1	GCCCTCGTGTCTCCTCAATAAGCTA
11	soybean	GH3 D3	GCAATCCTTGTCTCAATAAGTCCAC
12	soybean	P3	AAGGGAGACAACTTGTCTCCCA
13	pea	GT-1 rbcS3A	ATCTTGTGTGGTTAATGGCTGC
14	Arabidopsis	TCA motif	CTTCATCTCTCCCTCACAAACG
15	Arabidopsis	C-repeat/DRE	ATTTCATGGCCGACCTGCTTTT
16	soybean	HSE	AGAAGCTTCCAGAAGCTTCTAGAAG
17	maize	ERE	ATGCACGAATTGACCATTC
18	parsley	gln2 PR box	CATAAGAGCCGCCACTAAAATAAGACCG
19	wheat	HBP-1a	GGCCACGTACCAATCCCG
20	maize	A1 PROMOTER	CGGGTCAGTGTACCTACCAACCTAAACAC
21	maize	Bz1 PROMOTER	CGTCTAATGCGACTGGCAGGTGCGCAC
22	parsley	CHS promoter	ATCCGGTGGCCGTCCCTCCAACCTAACCT
23	rice tungro bacilliform virus	BoxII	CCAGTGTGCCCCCTGG
24*	rice	phyA GT-2 (GT-2)	TAGGTTAATTATTGGCGGTAA
25	synthetic	GT-2 like	AAACGGTAAAAAAAGCGGTAGATTAC
26	oat	Phy PF1	GAAATAGCAAATGTTAAAATA
27	soybean	AT-com	AAAAATAATATTAATATTATATTGAA
28	Arabidopsis	AG site	ATAAGCTTACCATTAATGGTAAAGCTTGG
29	Arabidopsis	AP3 site	CAAACTTCCATTTTAGTAACTAAGCTT
30	Arabidopsis	TGAC motif	GGTATCGTTGACCGAGTTGACT
31	petunia	CAGT motif	TTGACAGTGTCACTTGACAGTGTAC
32	maize	Dof1/Dof2	GATCAAAAAAGTGAGATC
33	parsley	pr2 oligomer II	ATTCAATAGTGTGCTATTGTTAAAGAGTTG
34	barley	CE1	TGCCATTGCCACCGGCCCCCA
35	soybean	H-box1	AGCAGACATGGTAGGCAGTGCA
36	bean	H-box2	TCACCTACCCCTACTTCTATCC
37	barley	lox1	AATCGTATGAATGAGTCATGTGACGGCT
38	tobacco	PR-2d	AGGGGCACTTGCACCTCCCTTC
39	synthetic	ROL6	TCAGAACACGCAAGTTGCCAGCTACCCAAAC
40	maize	SGB box 2/3	AGATATGATGATCTTAAAC
41	maize	SGB box 6-8	TGCGGTTCTTTGGCACAAATGGCATGA
42	maize	MS-BS7 box1-3	AAATCTACCTCCAACCAACCCAGCTTGTA
43	maize	MS-BS7 box22-24	ATCACACCAACTTATCACCTAGAAAAGCGA
44	soybean	AuxRE DR5	CCTTTGTCTCCCTTTGTCTC
45*	rice	PCNA IIA	CGAGGTGGGCCCCGTAGGTGGCCCCGTAT
46	parsley	PAL1 Box E	TACCTTTTACCCCTCATGTCATC
47	pea	myb26	GTCGACAAAAGTTAGGTTAGCAGGC
48	barley	GARE	GGCCGATAACAAACTCCGGCC
49	tomato	E8	TTTATTCCCAACAATAGAAAGTCTTG
50	tobacco	E1RE	GATTTGGTCAGAAAGTCAGTCC
51	wheat	CA	GTAGTGCCACCAAACACAACATACCAAATTA
52	rape	napA	GATCCCACATACACATACACG
53	sunflower	HaG3-A -75	CAGCTCCAAATGGTATCTCTCTGG
54	sunflower	HaG3-A -111	TATACAGATGTAGCATGTCT
55	maize	Prolamin box	TTGACGTGTAAGTAAATTACAAAC
56	pea	TGAC-like	GACACGTAGAATGAGTCATCAC
57	maize	SP20+6	GTCCCTCTCCCGTCCAGAGAAACCC
58	tobacco	MSA RT1	TGTCCCCCAACGGTCTTATT
59*	Arabidopsis	DRE rd29A1 (DRE 1)	ATATCATAACGACATCAGTT
60	Arabidopsis	DRE rd29A2	ATATACTACCGACATGAGTT
61	Arabidopsis	CGF-1	GATAAAGATTACTTCAGATATAACAAACGTT
62	tobacco	ltp1 D1	TTCCCCCTAGCTAGATACTTCATT
63	pea	ENBP1	CGATTATTGAGATATAATAAAATTAG
64	tomato	MRE	CGAAAACATACGCGCGAAATT

POOL#	9	10	11	12	13	14	15	16
1	Em1a	ABRE1	ABREa	P-Box	Z2Z3	As-2	As-1	Ocs
2	GCC	GH3D1	GH3D3	P3	GT-1	TCA	C/DRE	HSE
3	ERE	PRbox	HBP-1a	A1	Bz1	CHS	BoxII	GT-2
4	ROL	PF1	AT-com	AG	AP3	TGAC	CAGT	DOF
5	PR2	CE1	H-box1	H-box2	Lox1	PR-2d	ROL6	USA
6	USB	USC	USD	DR5	PCF	PAL1	myb26	GARE
7	E8	E1RE	CA	napA	HaG3.75	HaG3.111	P-box2	TGAC2
8	SP20+6	MSA	DRE1	DRE2	CGF1	Itp1D1	ENBP1	MRE

FIG.2

POOL#	9	10	11	12	13	14	15	16
1	Em1a	ABRE1	ABREa	P-Box	Z2Z3	As-2	As-1	Ocs
2	GCC	GH3D1	GH3D3	P3	GT-1	TCA	C/DRE	HSE
3	ERE	PRbox	HBP-1a	A1	Bz1	CHS	BoxII	GT-2
4	ROL	PF1	AT-com	AG	AP3	TGAC	CAGT	DOF
5	PR2	CE1	H-box1	H-box2	Lox1	PR-2d	ROL6	USA
6	USB	USC	USD	DR5	PCF	PAL1	myb26	GARE
7	E8	E1RE	CA	napA	HaG3.75	HaG3.111	P-box2	TGAC2
8	SP20+6	MSA	DRE1	DRE2	CGF1	Itp1D1	ENBP1	MRE

FIG. 3



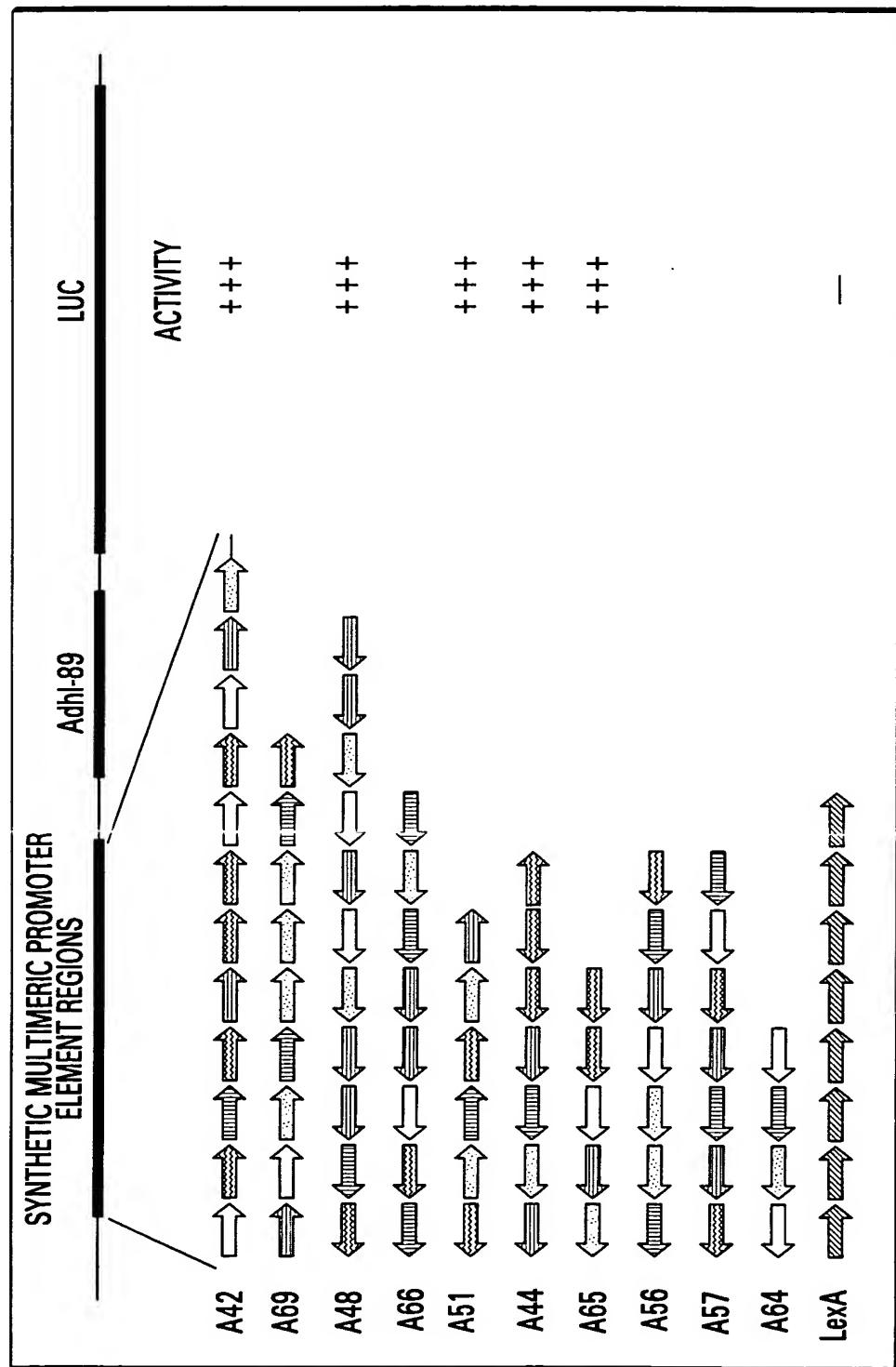
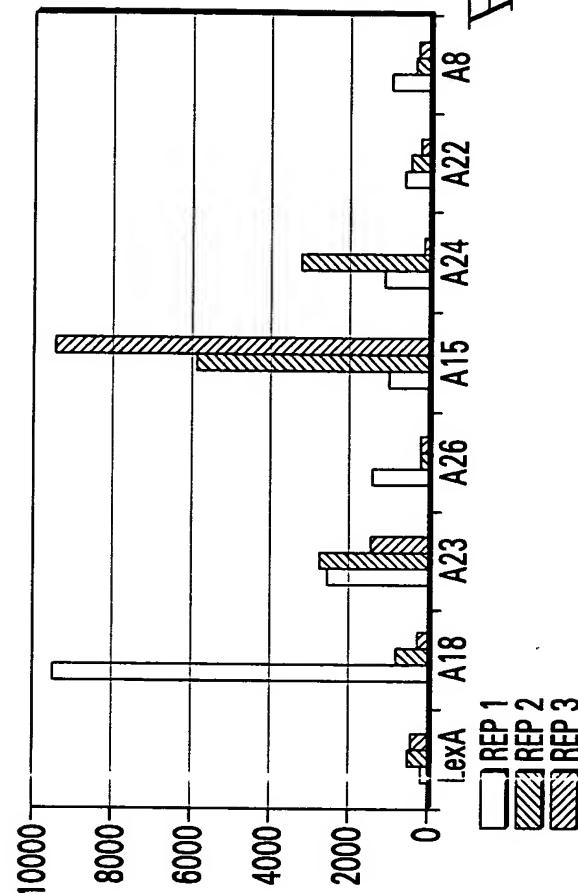
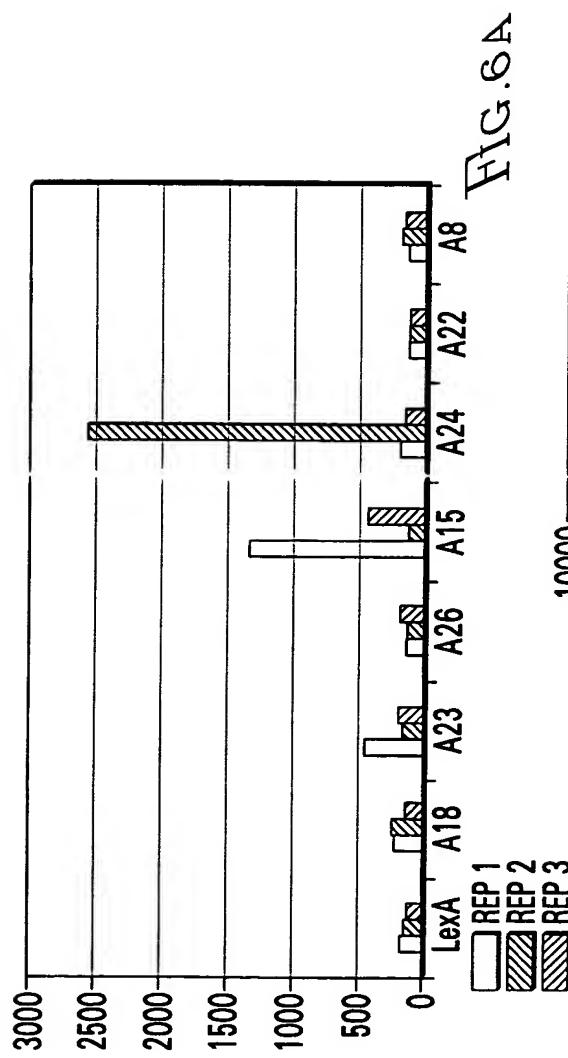
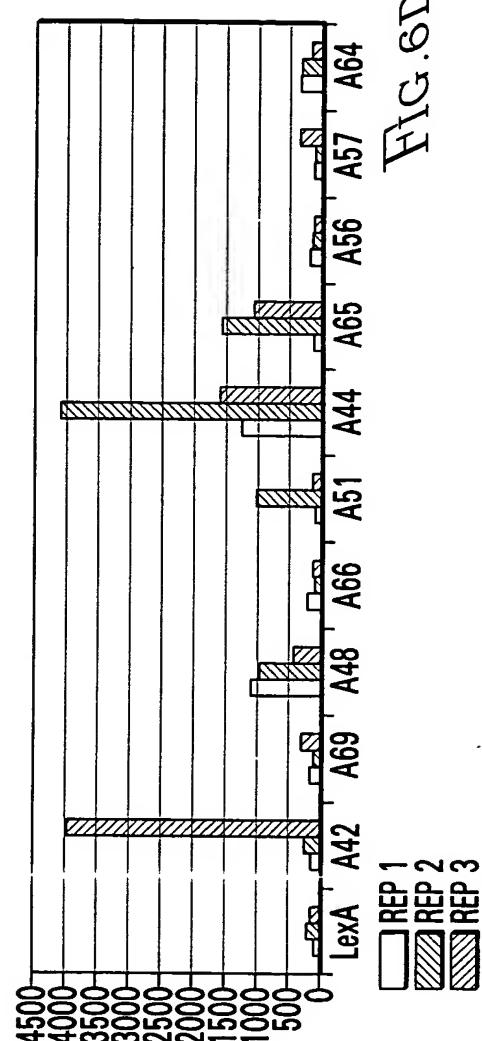
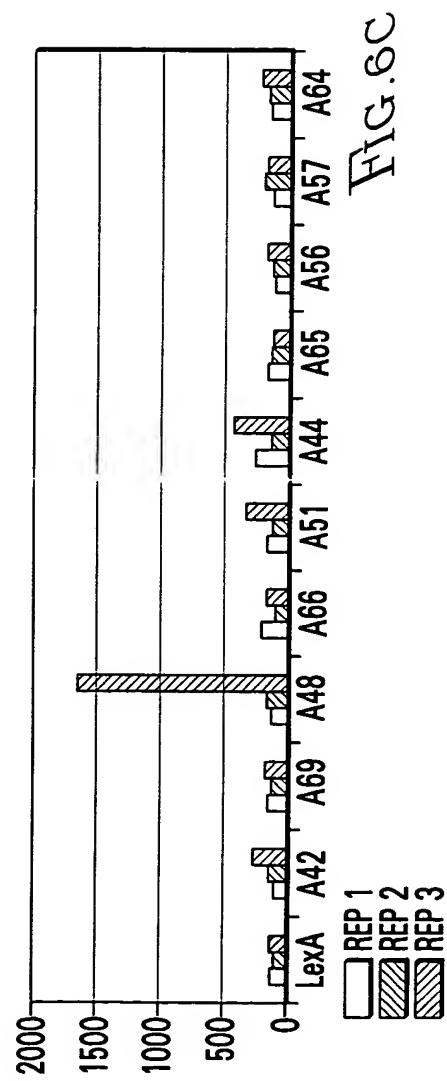


FIG. 5





A15 (PHP14147) 413bp

GT-2 ABRE1
TAGGTTAATTATTGGCGGTAATTATAGCTCGAGAAGAACCGAGACGTGGCGGGCTAG
ABRE1 GT-2
CTTCGAGAAGAACCGAGACGTGGCGGGCTAGCTAGGTTAATTATTGGCGGGTAATTATAG
AS-1 GT-2
CTCCACTGACGTAAGGGATGACGCACAATTAGCTAGGTTAATTATTGGCGATAATTATAG
GT-2 DRE1 DRE1
CTAGGTTAATTATTGGCGGTAATTATAGCATATCATAACCGACATCAGTTAGCTAGGTTA
GT-2 DRE1 DRE1
ATTATTGGCGGTAATTATAGCATATCATAACCGACATCAGTTAGCATATCATAACCGACAT
AS-1 DRE1 DRE1
CAGTTAGCTCCACTGACGTAAGGGATGACGCACAATTAGCATATCATAACCGACATCAGT
DRE1 ABRE1
TTAGCATATCATAACCGACATCAGTTAGCTCGAGAAGAACCGAGACGTGGCG

FIG. 7

A18 (PHP14148) 392bp

DRE1 ABRE1
GCTAAACTGATGCGGTATGATATGCTAGCCGCCACGTCTCGTTCTCTCGAAGCTAAACTGA
DRE1 AS-1 ABRE1
TGTCGGTATGATATGCTAATTGTGCGTCATCCCTTACGTCAGTAGTGGAGCTAGCCGCCACGTCTCG
DRE1 GT-2
GTTCTTCTCGAAGCTAAACTGATGCGGTATGATATGCTAATTACGCCAATAATTACCTAG
AS-1 DRE1
CTAATTGTGCGTCATCCCTTACGTCAGTAGTGGAGCTAAACTGATGTCGGTAGATATGCTAATACGGG
PCF PCF
CCCACCTACGGGCCACCTCGGCTAATACGGGCCACCTACGGGCCACCTCGGCTAAACTGATG
DRE1 AS-1 DRE1
TCGGTATGATATGCTAATTGTGCGTCATCCCTTACGTCAGTAGTGGAGCTAAACTGATGTCGGTATGA
TA

FIG.8

A23 (PHP14149) 314bp

DRE1 DRE1 AS-1
TAGCATATCATACCGACATCAGTTAGCATATCATACCGACATCAGTTAGCTCCACTGACGTAA
PCF1 ABRE1
GGGATGACGCACAATTAGCCGAGGTGGGCCGTAGGTGGGCCGTATTAGCTTCGAGAAGAACCG
PCF1 ABRE1
AGACGTGGCGGGCTAGCCGAGGTGGGCCGTAGGTGGGCCGTATTAGCTTCGAGAAGAACGTGAG
DRE1 GT-2
ACGTGGCGGGCTAGCATATCATACCGACATCAGTTAGCTAGGTTAATTATTGGCGGTAAATTATA
GT-2 ABRE1
GCTAGGTTAATTATTGGCGGTAAATTATAGCTTCGAGAAGAACCGAGGACGTGGC

FIG.9

A24 (PHP14150) 278bp

ABRE1 ABRE1 GT-2
TAGCTTCGAGAAGACGTGGCGGGCCGCCACGTCTCGTTCTTCGAAGCTATAATTACCGCCAA
GT-2 GT-2
TAATTAACCTAGCTATAATTACCGCCAATAATTAAACCTAGCTATAATTACCGCCAATAATTAAACC
DRE1 DRE1 DRE1
TAGCTAAACTGATGTCGGTATGATATGCTAAACTGATGTCGGTATGATATGCTAAACTGATGTCG
DRE1 ABRE1
GTATGATATGCTAAACTGATGTCGGTATGATATGCTAGCCCGCCACGTCTCGTTCTTCGAAG
PCF
CTAATACGGGCCACCTA

FIG.10

A42 (PHP14151) 348bp

PCF AS-1
CGAGGTGGGCCGTAGGTGGGCCGTATTAGCTCCACTGACGTAAGGGATGACGCACAATTAGCT
GT-2 AS-1
AGGTTAATTATTGGCGGTAAATTATAGCTCCACTGACGTAAGGGATGACGCACAATTAGCATATCA
DRE1 AS-1 AS-1
TACCGACATCAGTTAGCTCCACTGACGTAAGGGATGACGCACAATTAGCTCCACTGACGTAAGG
PCF AS-1
GATGACGCACAATTAGCCGAGGTGGGCCGTAGGTGGGCCGTATTCCACTGACGTAAGGGATGA
PCF DRE1
CGCACAAATTAGCCGAGGTGGGCCGTAGGTGGGCCGTATTAGCATATCATACCGACATCAGTTA
ABRE1
GCTTCGAGAAGAACCGAGTCGAG

FIG.11

A44 (PHP14152) 198bp

DRE1 ABRE1
TAAACTGATGTCGGTATGATAATGCCAACCCGGCAACGTCCGGTCTTCTCGAAGCTATAATT
GT-2 DRE1 As-1
CCGCCAATAATTAACCTAGCTAAACTGATGTCGGTATGATATGCTAATTGTGCGTCATCCCTAC
As-1 As-1
GTCAGTGGAGGCTAATTGTGCGTCATCCCTACGTCAGTCAGTGGAGGCTCCACTGAACGTAAGGGATGAC
GTC

FIG.12

A48 (PHP14153) 302bp

AS-1	GT-2
TTGTGCGTCATCCCTTACGTCAGTGGAGTAATTACCGCCAATAATTAAACCTAGCTAAACTGATGT	
DRE1	DRE1
CGGTATGATAT <u>GCTAAACTGATGTCGGTATGATATGCTAGCCCGCACGTCTCGTTCTTCGA</u>	ABRE1
PCF	DRE1
AGCTAATACGGGCCACCTACGGGCCACCTCGGCTAAACTGATGTCGGTATGATAT <u>GCTAATAC</u>	ABRE1
PCF	DRE1
GGGCCACCTACGGGCCACCTCGGCTAGCCGCCACGTCTCGTTCTCGAAG <u>GCTAAACTGA</u>	DRE1
DRE1	DRE1
TGTCGGTATGATAT <u>GCTAAACTGATGTCGGTATGATATGCTA</u>	

FIG.13

A51 (PHP14154) 157bp

AS-1 ABRE1
GTGCGTCATCCCTTACGTCAGTGGAGCTTCGAGAAGAACCGAGACGTGGCGGGCTAGCTAGGTTA
GT-2 AS-1 ABRE1
ATTATTGGCGGTAATTATAGCTCCACTGACGTAAGAGCTTCGAGAAGAACCGAGACGTGGCGGGC
DRE1
TAGCATATCATACCGACATCAGTTAG

FIG.14